

Powerpoint Presentation from Today's Meeting (proposed Goliad County Aquifer Exemption)

Harry Anthony, Andy Barrett, charles.maguire,

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Stacey Dwyer to: Art Dohmann, afriedman, jbb, raulieirwin,

larrydunbar

Cc: William Honker, Wren Stenger, Philip Dellinger, Chrissy Mann, David

Gillespie

From:

Stacey Dwyer/R6/USEPA/US

To:

Harry Anthony hanthony@uraniumenergy.com, Andy Barrett Andy@thebarrettfirm.com,

charles.maguire@tceq.texas.gov, Art Dohmann <artdohmann@gmail.com>,

a friedman@blackburncarter.com, jbb@blackburncarter.com, raulieirwin@yahoo.com,

Cc:

William Honker/R6/USEPA/US@EPA, Wren Stenger/R6/USEPA/US@EPA, Philip Dellinger/R6/USEPA/US@EPA, Chrissy Mann/R6/USEPA/US@EPA, David

Gillespie/R6/USEPA/US@EPA

Technical Meeting Goliad Exemption 8-16-12.pptx

Good Afternoon,

I thank all of you for traveling to attend today's meeting. It was a good discussion. Here is Ray's power point presentation.

Stacey B. Dwyer, P.E. Associate Director Source Water Protection Branch U.S. EPA Region 6 214-665-6729 phone 214-665-2191 fax

Technical Meeting Goliad Exemption

8-16-12

ssues with the latest submissions

- sands TCEQ has requested exemption of A, B, C and D
- Exemption area has been informally reduced
- include: Additional submissions for the reduced exemption
- Files electronically submitted 7/12-13/12
- CDs provided through the mail
- Application for mining permit
- Application for PAA -1
- GW modeling approaches

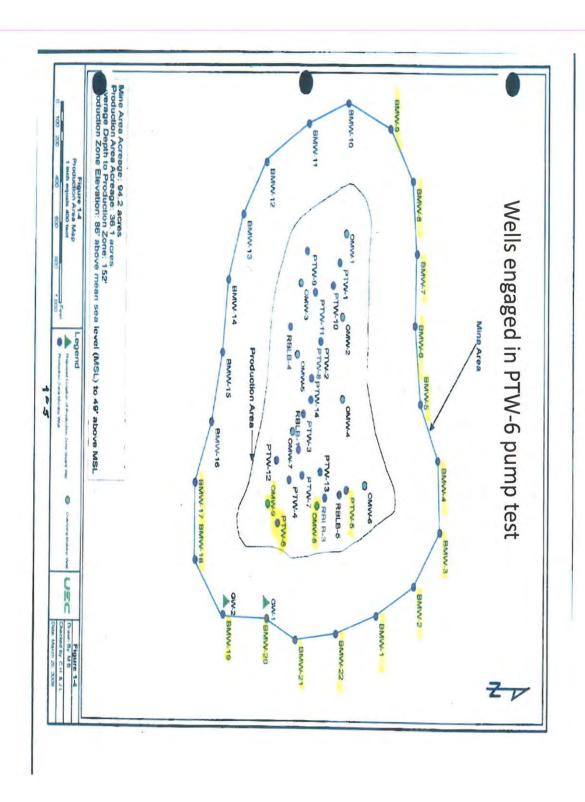
an USDW use criterion – aquifer does not currently serve as Exemption requires compliance with the current

Submissions provide:

- Pump test data
- Cross sections
- Clay layer thickness
- Fluid level measurements
- GW modeling approaches

Pump tests

- Two pump tests were conducted
- PTW 1 provides no proof of hydraulic isolation with no overlying monitor wells
- PTW 6 shows only localized isolation with two overlying monitor wells



Results of PTW-6 pump test

- Shows good communication with monitor well ring
- Indicates hydraulic isolation with OMW-9 completed in A sand
- Results of second OMW-8 is not clear



Figure 4.7. Water level drawdown and recovery in Troll observation wells for the PTW-6 test.

Can pump tests be relied upon to find hydraulic isolation between A and B sands exists?

- approximately 125' Distance between pump test well PTW-6 and OMW-9 showing good isolation is
- There is a much greater distance between the test and down gradient wells of
- Distance to the Braquet well is approx. 1400'
- Distance to the Church wells is approx. 2300'
- Pump test using PTW -6 is simply too far away to extrapolate results to wells of

Cross-sections indicate laterally extensive confining layers however

- Cross-sections also indicate two faults forming a graben within the facility boundaries
- NW fault
- SE fault
- sand layers could be in communication with each other at the faults sufficient to provide concern that the faults could be vertically transmissive and different Numerous cross-sections dissecting the faults indicate vertical displacement
- The SE fault runs very close to the Church wells
- Numerous artificial penetrations may remain open in the direction of the wells of

